

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/717,665 A
Source: 1FWO
Date Processed by STIC: 1/27/05

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/10/717,665A

TIME: 10:25:57

Input Set : A:\sequence listing -10717665.txt

Output Set: N:\CRF4\01272005\J717665A.raw

3 <110> APPLICANT: OriGene Technologies, Inc
 5 <120> TITLE OF INVENTION: Regulated Angiogenesis Genes and Polypeptides
 7 <130> FILE REFERENCE: 1U 103 R1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/717,665A
 C--> 9 <141> CURRENT FILING DATE: 2003-11-21
 9 <160> NUMBER OF SEQ ID NOS: 80
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 5682
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Homo sapiens
 18 <220> FEATURE:
 19 <221> NAME/KEY: CDS
 20 <222> LOCATION: (62)..(1195)
 21 <223> OTHER INFORMATION:
 W--> 24 <400> 1
 25 ccgcctcttc ctctcgggtcc catattgaac tcgagttgga agaggcgagt ccggtctcaa 60
 27 a atg gag gta aaa ccg ccg ccc ggt cgc ccc cag ccc gac tcc ggc cgt 109
 28 Met Glu Val Lys Pro Pro Pro Gly Arg Pro Gln Pro Asp Ser Gly Arg
 29 1 5 10 15
 31 cgc cgt cgc cgc cgg ggg gag gag ggc cat gat cca aag gaa cca gag 157
 32 Arg Arg Arg Arg Arg Gly Glu Glu Gly His Asp Pro Lys Glu Pro Glu
 33 20 25 30
 35 cag ttg aga aaa ctg ttt att ggt ggt ctg agc ttt gaa act aca gat 205
 36 Gln Leu Arg Lys Leu Phe Ile Gly Gly Leu Ser Phe Glu Thr Thr Asp
 37 35 40 45
 39 gat agt tta cga gaa cat ttt gag aaa tgg ggc aca ctc aca gat tgt 253
 40 Asp Ser Leu Arg Glu His Phe Glu Lys Trp Gly Thr Leu Thr Asp Cys
 41 50 55 60
 43 gtg gta atg aga gac ccc caa aca aaa cgt tcc agg ggc ttt ggt ttt 301
 44 Val Val Met Arg Asp Pro Gln Thr Lys Arg Ser Arg Gly Phe Gly Phe
 45 65 70 75 80
 47 gtg act tat tct tgt gtt gaa gag gtg gat gca gca atg tgt gct cga 349
 48 Val Thr Tyr Ser Cys Val Glu Glu Val Asp Ala Ala Met Cys Ala Arg
 49 85 90 95
 51 cca cac aag gtt gat ggg cgt gta gtg gaa cca aag aga gct gtt tct 397
 52 Pro His Lys Val Asp Gly Arg Val Val Glu Pro Lys Arg Ala Val Ser
 53 100 105 110
 55 aga gag gat tct gta aag cct ggt gcc cat cta aca gtg aag aaa att 445
 56 Arg Glu Asp Ser Val Lys Pro Gly Ala His Leu Thr Val Lys Lys Ile
 57 115 120 125
 59 ttt gtt ggt ggt att aaa gaa gat aca gaa gaa tat aat ttg aga gac 493
 60 Phe Val Gly Gly Ile Lys Glu Asp Thr Glu Glu Tyr Asn Leu Arg Asp

RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/10/717,665A

TIME: 10:25:57

Input Set : A:\sequence listing -10717665.txt

Output Set: N:\CRF4\01272005\J717665A.raw

| | | | | |
|-----|---|------|-----|--|
| 61 | 130 | 135 | 140 | |
| 63 | tac ttt gaa aag tat ggc aag att gaa acc ata gaa gtt atg gaa gac | 541 | | |
| 64 | Tyr Phe Glu Lys Tyr Gly Lys Ile Glu Thr Ile Glu Val Met Glu Asp | | | |
| 65 | 145 150 155 160 | | | |
| 67 | agg cag agt gga aaa aag aga gga ttt gct ttt gta act ttt gat gat | 589 | | |
| 68 | Arg Gln Ser Gly Lys Lys Arg Gly Phe Ala Phe Val Thr Phe Asp Asp | | | |
| 69 | 165 170 175 | | | |
| 71 | cat gat aca gtt gat aaa att gtt gtt cag aaa tac cac act att aat | 637 | | |
| 72 | His Asp Thr Val Asp Lys Ile Val Val Gln Lys Tyr His Thr Ile Asn | | | |
| 73 | 180 185 190 | | | |
| 75 | ggg cat aat tgt gaa gtg aaa aag gcc ctt tct aaa caa gag atg cag | 685 | | |
| 76 | Gly His Asn Cys Glu Val Lys Lys Ala Leu Ser Lys Gln Glu Met Gln | | | |
| 77 | 195 200 205 | | | |
| 79 | tct gct gga tca cag aga ggt cgt gga ggt gga tct ggc aat ttt atg | 733 | | |
| 80 | Ser Ala Gly Ser Gln Arg Gly Arg Gly Gly Gly Ser Gly Asn Phe Met | | | |
| 81 | 210 215 220 | | | |
| 83 | ggt cgc gga ggg aac ttt gga ggt ggt gga ggt aat ttt ggc cgt ggt | 781 | | |
| 84 | Gly Arg Gly Gly Asn Phe Gly Gly Gly Gly Gly Asn Phe Gly Arg Gly | | | |
| 85 | 225 230 235 240 | | | |
| 87 | gga aac ttt ggt gga aga gga ggc tat ggt ggt gga ggt ggt ggc agc | 829 | | |
| 88 | Gly Asn Phe Gly Gly Arg Gly Gly Tyr Gly Gly Gly Gly Gly Ser | | | |
| 89 | 245 250 255 | | | |
| 91 | aga ggt agt tat gga gga ggt gat ggt gga tat aat gga ttt gga ggt | 877 | | |
| 92 | Arg Gly Ser Tyr Gly Gly Gly Asp Gly Gly Tyr Asn Gly Phe Gly Gly | | | |
| 93 | 260 265 270 | | | |
| 95 | gat ggt ggc aac tat ggc ggt ggt cct ggt tat agt agt aga ggg ggc | 925 | | |
| 96 | Asp Gly Gly Asn Tyr Gly Gly Gly Pro Gly Tyr Ser Ser Arg Gly Gly | | | |
| 97 | 275 280 285 | | | |
| 99 | tat ggt ggt ggt gga cca gga tat gga aac caa ggt ggt gga tat ggt | 973 | | |
| 100 | Tyr Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly | | | |
| 101 | 290 295 300 | | | |
| 103 | gga ggt gga gga tat gat ggt tac aat gaa gga gga aat ttt ggc ggt | 1021 | | |
| 104 | Gly Gly Gly Gly Tyr Asp Gly Tyr Asn Glu Gly Gly Asn Phe Gly Gly | | | |
| 105 | 305 310 315 320 | | | |
| 107 | ggt aac tat ggt ggt ggt ggg aac tat aat gat ttt gga aat tat agt | 1069 | | |
| 108 | Gly Asn Tyr Gly Gly Gly Gly Asn Tyr Asn Asp Phe Gly Asn Tyr Ser | | | |
| 109 | 325 330 335 | | | |
| 111 | gga caa cag caa tca aat tat gga ccc atg aaa ggg ggc agt ttt ggt | 1117 | | |
| 112 | Gly Gln Gln Gln Ser Asn Tyr Gly Pro Met Lys Gly Gly Ser Phe Gly | | | |
| 113 | 340 345 350 | | | |
| 115 | gga aga agc tcg ggc agt ccc tat ggt ggt ggt tat gga tct ggt ggt | 1165 | | |
| 116 | Gly Arg Ser Ser Gly Ser Pro Tyr Gly Gly Gly Tyr Gly Ser Gly Gly | | | |
| 117 | 355 360 365 | | | |
| 119 | gga agt ggt gga tat ggt agc aga agg ttc taaaaacagc agaaaagggc | 1215 | | |
| 120 | Gly Ser Gly Gly Tyr Gly Ser Arg Arg Phe | | | |
| 121 | 370 375 | | | |
| 123 | tacagttctt agcaggagag agagcgagga gttgtcagga aagctgcagg ttactttgag | 1275 | | |
| 125 | acagtcgtcc caaatgcatt agaggaactg taaaaatctg ccacagaagg aacgatgac | 1335 | | |
| 127 | catagtcaga aaagttactg cagcttaaac aggaaaccct tcttgttcag gactgtcata | 1395 | | |

RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/10/717,665A

TIME: 10:25:57

Input Set : A:\sequence listing -10717665.txt

Output Set: N:\CRF4\01272005\J717665A.raw

| | | | | | | | |
|-----|------------|-------------|-------------|-------------|------------|-------------|------|
| 129 | gccacagttt | gcaaaaaagt | gagctattga | ttaatgcaat | gtagtgtaa | ttagatgtac | 1455 |
| 131 | attcctgagg | tcttttatct | gtttagctt | tgtctttttc | ttttctttt | cattacatca | 1515 |
| 133 | ggtatattgc | cctgtaaatt | gtgtagtg | taccaggaat | aaaaaat | ggaattttta | 1575 |
| 135 | acttttcaat | atttgtgtag | ttcagttttt | ctacatttta | gtacagaaac | tttaacaaaa | 1635 |
| 137 | tgcagtttcg | aaggtgtttc | cttgtgagtt | aacaagtaaa | gaagatcatt | gttaattact | 1695 |
| 139 | attttgtatg | aattttgcta | aagttaactg | taaagaaaca | cctgctgact | tgcagtttaa | 1755 |
| 141 | ggggaatcta | ttctcccat | ttccaaacca | tgatatgaat | gggcgctgac | atgtggagag | 1815 |
| 143 | aatagataat | ttgtgtgttt | gcaatgtgtg | ttttagataa | ataggattgg | gtattttaat | 1875 |
| 145 | tagcatttgt | gaatttaata | gcattaagat | taccttcaaa | tgaaaaaaa | tctcaaaatt | 1935 |
| 147 | tctatttgg | ttttgtgcat | tttcttttaa | aatgtaatca | tatgatttta | gtgtgttaga | 1995 |
| 149 | cttgctgagt | cctagctgtg | tttagaacat | ctctattcta | catttacctt | ggtaaaattt | 2055 |
| 151 | gaactgctgc | cataggtttt | gggtgtaaa | aatgtttact | gccctccatt | taaattctga | 2115 |
| 153 | aaagggatgg | tggatgtttt | ccctctccta | cgttagaaac | cattcttaaa | aacttttgaa | 2175 |
| 155 | aataagaac | cattaagcct | gctatatctg | agcaaat | tgggtacctt | ttttttctta | 2235 |
| 157 | tttaaagcac | aagaggccca | taaatcttga | gttactttaa | attctttttt | ttgatacaag | 2295 |
| 159 | ttttcagagc | aagagaataa | aaatcatgtg | ttattaaacc | cctaactggc | tggcatgctt | 2355 |
| 161 | tctgtttgt | attctataca | ttttgctgga | tgaaccaag | gtagttcag | gtataattgt | 2415 |
| 163 | ccaaaataac | ctaactgcag | cagaaatgta | gcacagttgc | ttagtacagg | cttctcactt | 2475 |
| 165 | cctacagacc | tgaattcaaa | tttgatagtg | ctgagttctt | aaattcccaa | agaacacact | 2535 |
| 167 | gttatttctt | gtgtatat | caacataaat | catgttggtt | ccaatttgtt | tgggaaggccc | 2595 |
| 169 | tgggtgagaa | gagtttttagt | taataaggct | atatatacat | atattaatat | aaaccaatgt | 2655 |
| 171 | ctactgtttt | gctccagcta | gtgcttacag | tttcattcga | gccctgagta | tgtgccctgc | 2715 |
| 173 | tgttactctc | tttggtagtt | gaacgttgaa | ttcaagtctt | ttgttttaag | aagtactaag | 2775 |
| 175 | caaacaagca | ataaaaagg | gaatggggtg | tgctagtgtt | tgaatatgct | ctctgtgtgc | 2835 |
| 177 | tctaattctg | tgcctctgtg | cattaatatt | tggatgcatg | caatgccagc | atggaaattg | 2895 |
| 179 | gtcttcacat | atactgcagt | tttccagaaa | cattcacaaa | ccaataaatg | taacagacat | 2955 |
| 181 | tccatttgtt | aatgggcata | tatgtgaaaa | gcagtgtaga | aaataggcta | atattagaaa | 3015 |
| 183 | atggttaagt | cctaaataac | ttcaagtgtg | gttatataat | ggacactgtc | aatgttcata | 3075 |
| 185 | acttaaacct | gggtacctgg | tcaaaataat | gcttgggaaa | cattaaaatt | gagctaaatt | 3135 |
| 187 | gtctcaagtt | cttttattca | tataaataaa | gtttaaagga | atgggggaga | ttaacatttc | 3195 |
| 189 | ctgttttatg | tttgtgaaat | tgtttgacac | aaccttgaca | gtatccttta | atggcatgag | 3255 |
| 191 | gttaattgta | ctgttaacca | actttctatg | ttctggaact | agtattatag | tgaacacatt | 3315 |
| 193 | tacagtaagt | tgatgtttac | aacctataag | cagggtgaaat | ctgtgtatgt | gacctgttta | 3375 |
| 195 | taagttgtat | tagcttagct | cttgtgaaca | gtgtggaaaa | gtaagccatg | aggagagcga | 3435 |
| 197 | tttaaccacc | tttaaggac | ctaagatgtg | ctttttaagc | acagtgtgga | tcacagaaac | 3495 |
| 199 | tcactaagac | aggacttcag | cagccttttg | tgtttggaaca | agtcagcata | aataaagaat | 3555 |
| 201 | gacaaggcag | cagcaagagc | ttcaactaca | gagaagtga | ggcataagat | actatgatga | 3615 |
| 203 | tagtgagcaa | ctttccaaaa | gctagttaaa | tctgcttatt | acaactgaaa | tatcgaagaa | 3675 |
| 205 | agtctagcag | gaaggagctc | ttcgcccttt | ggaacatcaa | tgagagatag | ttgccacagt | 3735 |
| 207 | cactaggtct | agcattttaga | cctgcaagga | agggcaataa | gcattaggta | aggcttgaat | 3795 |
| 209 | ttgaattttt | tactaatta | aagagtaatt | ttttgtaaag | caaggtaaga | gtaattcttt | 3855 |
| 211 | tgatttgcag | gttgaatgag | aacctactt | gcctaaatga | ggaatgtctt | tcctaccatc | 3915 |
| 213 | taaaatacga | aggtttctgg | ctgggtaagg | ttttagttg | acagtaaaac | ctgatgacac | 3975 |
| 215 | catttgtttc | cctgcaagtc | tacattacat | atttcacaa | tttgtccctc | tctagtaggc | 4035 |
| 217 | acattggaaa | aattcttcaa | ctgaaaaacta | ccttggtacc | atgtcctaca | cgttttaaac | 4095 |
| 219 | cttagtttta | aaaattcccc | tgcgaaatag | ccataagtat | tcatatcaag | tcagttgtga | 4155 |
| 221 | ctccttgtgt | atacaattca | ttttttgtgt | cttcagggtg | aactcaattt | ttggtaaagt | 4215 |
| 223 | ggtttcagct | tttgtgaaaa | ccgtttttgt | gtgtaagcat | gacacacaac | agactcagta | 4275 |
| 225 | agctgcccat | cctcatacta | ggaaaacacc | ttcaaaggaa | cattaaaagt | taccagggcc | 4335 |

RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/10/717,665A

TIME: 10:25:57

Input Set : A:\sequence listing -10717665.txt

Output Set: N:\CRF4\01272005\J717665A.raw

```

227 aggcacagtg gctcacgcct gtaatcccag cactttggga ggctgaggca gatggatccc 4395
229 aagtcaggga atttgagacg agcctgggca acatagttag agcctgtcaa caaaaaatag 4455
231 aaaaattagt tgggcttggt gatacacatc tgtagtccca gctatttggg aggctgcctt 4515
233 gatatcaggc agtcgaggct gcagttagct gactgcccc ctgtattcca gcctgggtga 4575
235 ccccatctca aagaagaaaa gttaccagat gtcattgggt aagggttggtc ttcaagtggc 4635
237 ctcataagtt gtcttgcat taaattcagg gaattcattg gaccaatagg ttacattttc 4695
239 gttccttttt tgttttggtt catctgttaa gcagtggggg cctaattact gtccttttgt 4755
241 aaaaacacat tttcccaaag aacactgaat taccgttcaa actggttggt gatgggtaat 4815
243 aagggtctgtt tttgctgccc caaaagggct taacaattta ggcggatagt ttacttaaaa 4875
245 aaaaaaatcc tttggagaca tactgaaaat gcaactagt ttctaaatta tcaattccct 4935
247 acatgaagaa gcagtttgcc agagtttagt ctcaaaaaat gactgggttg ctctatttaa 4995
249 atcagaaccc aatttctacg cgtgttgaat aaggtaacag cctttgatga atttccttca 5055
251 caacatggtt ttagtgaagc aaacattttt tttttaaggg cattgttctt tctagtttat 5115
253 ttctttttat gaaataaaa tattttattt aaacagttcc attgtcgttt ctgaaaacta 5175
255 cagtattctc agaagttgta gcagcagtaa aaaaaaaaaa gttgttatat aagtgattgg 5235
257 ggcagattta actgattttg ttaaaccaat ttgtaagtta ctgcttctaa tattacactt 5295
259 ctaaaaagct gaatttatac tcatgtccta aaggagaata tgtggtataa aagtatatat 5355
261 gttaagtaac taattgaaat aggccttggtt ttaagagttc cagtatataa taatcacaaa 5415
263 ttgaaacctg acagtatctt gggagttcca gtaatgtcac aaattagtga ataagcatgc 5475
265 cagtgtgcaa gggtaatgta aggattgtta gcctatctaa atattcaaaa ttactttaaa 5535
267 acttaagtat gttttctgat ttttaagaat tcagaagtgt tctgtaatgg attcagatgt 5595
269 ttcatttgta gtataatgaa atgtttacag aaagataact ttttcattaa aatattttta 5655
271 gaaatgtgaa aaaaaaaaaa aaaaaaa 5682
274 <210> SEQ ID NO: 2
275 <211> LENGTH: 378
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 2
281 Met Glu Val Lys Pro Pro Gly Arg Pro Gln Pro Asp Ser Gly Arg
282 1 5 10 15
285 Arg Arg Arg Arg Gly Gly Glu Gly His Asp Pro Lys Glu Pro Glu
286 20 25 30
289 Gln Leu Arg Lys Leu Phe Ile Gly Gly Leu Ser Phe Glu Thr Thr Asp
290 35 40 45
293 Asp Ser Leu Arg Glu His Phe Glu Lys Trp Gly Thr Leu Thr Asp Cys
294 50 55 60
297 Val Val Met Arg Asp Pro Gln Thr Lys Arg Ser Arg Gly Phe Gly Phe
298 65 70 75 80
301 Val Thr Tyr Ser Cys Val Glu Glu Val Asp Ala Ala Met Cys Ala Arg
302 85 90 95
305 Pro His Lys Val Asp Gly Arg Val Val Glu Pro Lys Arg Ala Val Ser
306 100 105 110
309 Arg Glu Asp Ser Val Lys Pro Gly Ala His Leu Thr Val Lys Lys Ile
310 115 120 125
313 Phe Val Gly Gly Ile Lys Glu Asp Thr Glu Glu Tyr Asn Leu Arg Asp
314 130 135 140
317 Tyr Phe Glu Lys Tyr Gly Lys Ile Glu Thr Ile Glu Val Met Glu Asp
318 145 150 155 160
321 Arg Gln Ser Gly Lys Lys Arg Gly Phe Ala Phe Val Thr Phe Asp Asp

```

RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/10/717,665A

TIME: 10:25:57

Input Set : A:\sequence listing -10717665.txt

Output Set: N:\CRF4\01272005\J717665A.raw

```

322                               165                               170                               175
325 His Asp Thr Val Asp Lys Ile Val Val Gln Lys Tyr His Thr Ile Asn
326                               180                               185                               190
329 Gly His Asn Cys Glu Val Lys Lys Ala Leu Ser Lys Gln Glu Met Gln
330                               195                               200                               205
333 Ser Ala Gly Ser Gln Arg Gly Arg Gly Gly Gly Ser Gly Asn Phe Met
334                               210                               215                               220
337 Gly Arg Gly Gly Asn Phe Gly Gly Gly Gly Gly Asn Phe Gly Arg Gly
338 225                               230                               235                               240
341 Gly Asn Phe Gly Gly Arg Gly Gly Tyr Gly Gly Gly Gly Gly Gly Ser
342                               245                               250                               255
345 Arg Gly Ser Tyr Gly Gly Gly Asp Gly Gly Tyr Asn Gly Phe Gly Gly
346                               260                               265                               270
349 Asp Gly Gly Asn Tyr Gly Gly Gly Pro Gly Tyr Ser Ser Arg Gly Gly
350                               275                               280                               285
353 Tyr Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly
354                               290                               295                               300
357 Gly Gly Gly Gly Tyr Asp Gly Tyr Asn Glu Gly Gly Asn Phe Gly Gly
358 305                               310                               315                               320
361 Gly Asn Tyr Gly Gly Gly Gly Asn Tyr Asn Asp Phe Gly Asn Tyr Ser
362                               325                               330                               335
365 Gly Gln Gln Gln Ser Asn Tyr Gly Pro Met Lys Gly Gly Ser Phe Gly
366                               340                               345                               350
369 Gly Arg Ser Ser Gly Ser Pro Tyr Gly Gly Gly Tyr Gly Ser Gly Gly
370                               355                               360                               365
373 Gly Ser Gly Gly Tyr Gly Ser Arg Arg Phe
374                               370                               375

```

377 <210> SEQ ID NO: 3

378 <211> LENGTH: 3985

379 <212> TYPE: DNA

380 <213> ORGANISM: Homo sapiens

382 <220> FEATURE:

383 <221> NAME/KEY: CDS

384 <222> LOCATION: (187)..(2529)

385 <223> OTHER INFORMATION:

W--> 388 <400> 3

```

389 cttttgggct ggaggctcca ctttttgtgt ttcccgacaca gtcaatcaaa ataggaaaaa 60
391 aaaatccccg gaccgctccg gccgtgtccg ccgcgcttc ccgcaccttc tcccgccgcc 120
393 gccgccttcg ctctcacca tgtgtaaggc ggcggggagc cccgcctgag gtgccctaaa 180
395 cacact atg acc gct ccc gaa aag ccc gtg aaa caa gag gaa atg gct 228
396 Met Thr Ala Pro Glu Lys Pro Val Lys Gln Glu Met Ala
397 1 5 10
399 gcc ttg gac gtg gat agc ggc ggc ggc ggt ggc ggc ggc ggc ggc cac 276
400 Ala Leu Asp Val Asp Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly His
401 15 20 25 30
403 ggc gag tat ctg cag cag cag caa cag cac gga aac ggt gcg gtg gcg 324
404 Gly Glu Tyr Leu Gln Gln Gln Gln Gln His Gly Asn Gly Ala Val Ala
405 35 40 45
407 gcg gca gcg gcg gcc cag gac act cag ccg tca ccg ctc gct ctg ctg 372

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/717,665A

DATE: 01/27/2005
TIME: 10:25:58

Input Set : A:\sequence listing -10717665.txt
Output Set: N:\CRF4\01272005\J717665A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:45; Xaa Pos. 162

Seq#:46; Xaa Pos. 162

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/717,665A

DATE: 01/27/2005

TIME: 10:25:58

Input Set : A:\sequence listing -10717665.txt

Output Set: N:\CRF4\01272005\J717665A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:24 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:21
L:388 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:385
L:856 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:853
L:1306 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:1303
L:1658 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:1655
L:2110 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:2107
L:2372 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:2369
L:2572 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15,Line#:2569
L:2924 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:17,Line#:2921
L:3558 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:19,Line#:3555
L:4176 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:4173
L:4810 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:23,Line#:4807
L:5502 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:25,Line#:5499
L:5712 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:27,Line#:5709
L:6306 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:29,Line#:6303
L:6738 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:31,Line#:6735
L:6932 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:33,Line#:6929
L:7096 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:35,Line#:7093
L:7232 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:37,Line#:7229
L:7778 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:39,Line#:7775
L:8158 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:41,Line#:8155
L:8304 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:43,Line#:8301
L:8766 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:45,Line#:8763
L:8824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:1008
L:9050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:160
L:9185 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:47,Line#:9182
L:9685 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:49,Line#:9682
L:9857 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:51,Line#:9854
L:10019 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:53,Line#:10016
L:10521 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:55,Line#:10518
L:10991 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:57,Line#:10988